

**CLAIMS**

1. Optical connector system (1) comprising a backpanel (2) and at least one substrate (3) having at least one substrate housing assembly (30) and a first interface part (7) for establishing an optical interface
- 5 **characterized in that**
- said backpanel (2) comprises an integrated second interface part (8) adapted to complete said optical interface and said substrate housing assembly (30) is adapted to provide relative movement of said substrate (3) with respect to said optical
- 10 interface.
2. Optical connector system (1) according to claim 1, wherein said substrate housing assembly (30) is slidably mounted on said substrate (3).
3. Optical connector system (1) according to claim 1,
- 15 wherein said substrate housing assembly (30) is attached to said substrate (3) and comprises a further housing (34) with said first interface part (7) that is slidably mounted in a z-direction of said substrate housing assembly (30).
4. Optical connector system (1) according to claim 3,
- 20 wherein said substrate housing assembly (30) comprises a biasing arrangement (33) for said further housing (34) adapted to release said further housing (34) substantially after completion of said optical interface.
5. Optical connector system (1) according to claim 3
- 25 or 4, wherein said further housing (34) comprises at least one ferrule assembly (37) for optical fibres at said mating side and alignment elements (38) to align said first interface part (7) and said second interface part (8).
6. Optical connector system (1) according to one or
- 30 more of the claims 3-5, wherein said further housing (34) is at least partly accommodated within said substrate housing assembly (30).
7. Optical connector system (1) according to one or more of the preceding claims, wherein said backpanel (2)
- 35 comprises a backpanel housing assembly (20) and said substrate housing assembly (30) comprise locking elements adapted to

lock said housings (20,30) after completion of said optical interface.

8. Optical connector system (1) according to one or more of the preceding claims, wherein said backpanel (2) comprises one or more first electrical contacts (9) and said substrate (3) comprises one or more second electrical contacts (10) and said optical connector system (1) is further arranged to establish electrical connections between said first and second electrical contacts (9,10) substantially after completion of said optical interface.

9. Substrate housing assembly (30) for a substrate (3) adapted for mounting to a backpanel housing assembly (20) of a backpanel (2) to establish an optical interface for optical communication between said substrate (3) and said backpanel (2)

**characterized in that**

said substrate housing assembly (30) being adapted to comprise a further housing (34) with a mating side forming a first interface part (7) for said optical interface, said further housing (34) being slidably mountable in a z-direction of said substrate housing assembly (30).

10. Substrate housing assembly (30) according to claim 9, wherein said substrate housing assembly (30) comprises biasing means (33) adapted to release said further housing (34) after completion of said optical interface.